

*Inventor
Search*

3/5/1 (Item 1 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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014564953 **Image available**
WPI Acc No: 2002-385656/200242
XRPX Acc No: N02-302027

Tab for container for comestibles comprises rigid lever part, which is connectable to tear part, and flexible operating loop which operates lever part and is movably connected to it

Patent Assignee: IMPRESS BV (IMPR-N)

Inventor: **EMMERZAAL A**

Number of Countries: 027 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1205392	A1	20020515	EP 2000203965	A	20001110	200242 B
US 20020088803	A1	20020711	US 200110944	A	20011108	200248

Priority Applications (No Type Date): EP 2000203965 A 20001110

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1205392	A1	E	12	B65D-017/353	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

US 20020088803	A1			B65D-017/34	
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Abstract (Basic): EP 1205392 A1

NOVELTY - The container tab (170) has a wall (5) with a tear part for opening the container. The tab comprises a rigid lever part, which is connectable to the tear part. A flexible operating loop operates the lever part and is movably connected to it. The loop can be moved out of the plane of the rigid lever part. The lever part comprises at least two sleeves in which the ends of a strand are fixedly arranged. The strand comprises a steel cable.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a container using the above tab.

USE - For opening various types of containers.

ADVANTAGE - Improved comfort for opening container.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of the container with the tab.

Container wall (5)

Container tab (170)

pp; 12 DwgNo 1A/17

Title Terms: TAB; CONTAINER; COMESTIBLE; COMPRISE; RIGID; LEVER; PART; CONNECT; TEAR; PART; FLEXIBLE; OPERATE; LOOP; OPERATE; LEVER; PART; MOVE; CONNECT

Derwent Class: Q32

International Patent Class (Main): B65D-017/34; B65D-017/353

File Segment: EngPI

Set	Items	Description
S1	2	AU='EMMERZAAL A':AU='EMMERZAAL AD'
S2	2	IDPAT (sorted in duplicate/non-duplicate order)
S3	1	IDPAT (primary/non-duplicate records only)

? show files

File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)

(c) 2003 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2003/Apr W03

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030424,UT=20030417

(c) 2003 WIPO/Univentio

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200325

(c) 2003 THOMSON DERWENT

File 371:French Patents 1961-2002/BOPI 200209

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10/5/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

05554534 **Image available**
TAB-RAISING DEVICE ATTACHED TO TAB OF ALUMINUM BEVERAGE CAN, ETC.

PUB. NO.: 09-169334 [JP 9169334 A]
PUBLISHED: June 30, 1997 (19970630)
INVENTOR(s): FUJIMURA HISAKI
APPLICANT(s): FUJIMURA HISAKI [000000] (An Individual), JP (Japan)
APPL. NO.: 07-353415 [JP 95353415]
FILED: December 19, 1995 (19951219)
INTL CLASS: [6] B65D-017/34 ; B65D-017/347 ; B65D-017/353
JAPIO CLASS: 31.2 (PACKAGING -- Containers); 11.4 (AGRICULTURE -- Food Products)

ABSTRACT

PROBLEM TO BE SOLVED: To attach a ring of elastic plastic or the like to a tab so as to make the tab openable by pulling the ring.

SOLUTION: An **elastic** tab-raising device is attached to the **tab** on a **can** for fruit juice, etc. Invariably a hole is opened through such a tab 3 by reason of strength. On this hole a stem 2 is placed and designed to cause a push on the stem 2 to raise a frame 1 by the principle of the lever. By pulling the frame 1 with a finger passed therethrough the tab 3 can be raised simply with no burden on the finger.

10/5/9 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012566615 **Image available**
WPI Acc No: 1999-372721/199932
XRPX Acc No: N99-278102

Drink can closer for e.g. keeping bees out of opened cans has cover, metal or plastic tab, insert region with projections and stamped reinforcement

Patent Assignee: SPITTEL W (SPIT-I)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 29900136	U1	19990624	DE 99U2000136	U	19990107	199932 B

Priority Applications (No Type Date): DE 99U2000136 U 19990107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 29900136	U1		7	B65D-017/32	

Abstract (Basic): DE 29900136 U1

NOVELTY - The drink can closer has a cover (1), tab (2), insert region with projections (3, 4) and a stamped reinforcement. It is made of plastic, cardboard or metal. The tab is of metal or plastic with the reinforcement, clamping edge, insert and projections stamped into it. The closer consists of the tab, a plug and a round lid with a clamping edge.

USE - E.g. for keeping bees out of opened cans.

ADVANTAGE - Safer.

DESCRIPTION OF DRAWING(S) - The drawing shows the design and use of

the closer.

Cover (2) Tab (1)
Projections (3, 4)
pp; 7 DwgNo 5/6

Title Terms: DRINK; CAN; CLOSE; KEEP; BEE; OPEN; CAN; COVER; METAL; PLASTIC
; TAB; INSERT; REGION; PROJECT; STAMP; REINFORCED

Derwent Class: Q32

International Patent Class (Main): B65D-017/32

File Segment: EngPI

10/5/13 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010814328 **Image available**

WPI Acc No: 1996-311281/199632

XRPX Acc No: N96-261601

Plastics sealing tab for metal drinks can - is inserted under metal
lever fixed to can, tab having same shape as opening which is freed by
pulling lever upwards, rotation of lever and tab places tab over opening
and downward pressure re-seals opening

Patent Assignee: BONNEMAZOU C (BONN-I); MICHEL T (MICH-I)

Inventor: BONNEMAZOU C; MICHEL T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2728237	A1	19960621	FR 9415209	A	19941216	199632 B

Priority Applications (No Type Date): FR 9415209 A 19941216

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
FR 2728237	A1		6	B65D-017/50	

Abstract (Basic): FR 2728237 A

A metal lever (2) already fixed to the can containing a gaseous
liquid and a plastics tab (3) inserted under the lever enables
resealing can once it has been opened. The plastics tab has the same
shape as the can opening (4). When the lever is pulled upwards the lid
is lowered inside freeing the opening.

To re-seal the opening the assembly, lever and tab, is rotated
about its fixing rivet (1) through 180deg.. It is then placed over the
opening and by simple pressure the tab hermetically seals the opening.
Pulling again on the lever enables the can to be re-opened.

ADVANTAGE - The drinks can be opened and hermetically re-sealed as
often as required.

Dwg.1/2

Title Terms: PLASTICS; SEAL; TAB; METAL; DRINK; CAN; INSERT; METAL; LEVER;
FIX; CAN; TAB; SHAPE; OPEN; FREE; PULL; LEVER; UP; ROTATING; LEVER; TAB;
PLACE; TAB; OPEN; DOWN; PRESSURE; SEAL; OPEN

Derwent Class: Q32

International Patent Class (Main): B65D-017/50

International Patent Class (Additional): B65D-017/34

File Segment: EngPI

10/5/14 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009764781

WPI Acc No: 1994-044632/199406

XRAM Acc No: C94-019896

XPX Acc No: N94-035350

Prodn. of lid, esp. for drink or preserve cans - by heat-sealing plastic coating on ring-pull opening tab to lacquered top of can using heated jaws

Patent Assignee: PECHINEY EMBALLAGE ALIMENTAIRE (PECH)

Inventor: JOUILLART J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2693170	A1	19940107	FR 928680	A	19920703	199406 B

Priority Applications (No Type Date): FR 928680 A 19920703.

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
FR 2693170	A1	42	B65D-017/40	

Abstract (Basic): FR 2693170 A

A process is claimed for prodn. of an easily openable lid by heat-sealing a metal panel, having an external protective coating, with a metal opening tab, having an internal heat-sealable coating, to form a connection. The panel includes a peripheral region forming a seal with a container body and a central, at least partly detachable, movable region defined by a line of weakness. The tab includes a gripping ring, a hinged fixing region and a supporting neck adjacent to the line of weakness.

The novel features are that: (a) the heat-sealable coating layer is of thermoplastic having thickness 20-80 microns, at least the outer part of which is heat-sealable; (b) the protective coating is of polymeric material thinner than the heat-sealable layer; and (c) the two layers are heat-sealed using heated jaw (pref. at 200-350 deg.) for sufficient time to give an elastic connection between the layers.

USE/ADVANTAGE - The lids are for food containers, esp. for cans contg. preserves or drinks. Heat-sealing is effected rapidly and reproducibly, with very few rejects. The tab is firmly fixed without using a rivet. A wide variety of materials (including many conventional components) can be used, with the organic material content minimised to facilitate recycling.

Dwg.0/9

Title Terms: PRODUCE; LID; DRINK; PRESERVE; CAN; HEAT; SEAL; PLASTIC;

COATING; RING; PULL; OPEN; TAB; LACQUER; TOP; CAN; HEAT; JAW

Derwent Class: A32; A92; G02; M13; P73; Q32

International Patent Class (Main): B65D-017/40

International Patent Class (Additional): B32B-015/08; B32B-031/20

File Segment: CPI; EngPI

10/5/15 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009222964 **Image available**

WPI Acc No: 1992-350385/199243

XRAM Acc No: C92-155546

XPX Acc No: N92-267103

Injection moulded plastic opening system for can - comprises flange with crosspiece having opening nose, finger grip and reclosure plate which pivots about vertical axis

Patent Assignee: ROETHIG FA HORST (ROET-N)

Inventor: ROETHIG H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4111364	A	19921015	DE 4111364	A	19910409	199243 B

Priority Applications (No Type Date): DE 4111364 A 19910409

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 4111364	A	6	B65D-017/50	

Abstract (Basic): DE 4111364 A

The invention relates to a can opening system attached to the lid of a **can**. The **opener** comprises a flange with a **flexible** cross-piece perpendicular to it from which on one side a nose extends over the pre-stamped weak opening line. On the other side of the cross-piece is a finger grip.

A reclosure plate is integrally formed onto the flange which, after rotation of the flange about a pivot on the lid can be pressed into the can opening to seal it. The complete opening system is mfd. by injection moulding polypropylene or ABS plastic of medium hardness and elasticity.

USE/ADVANTAGE - The opener is suitable for cans, e.g. drinks cans, with a preformed weak line for rapid opening, can be mfd., with a simpler process and tools and is safer to handle during opening.

Dwg.2/5

Title Terms: INJECTION; MOULD; PLASTIC; OPEN; SYSTEM; CAN; COMPRISE; FLANGE ; CROSSPIECE; OPEN; NOSE; FINGER; GRIP; RECLOSABLE; PLATE; PIVOT; VERTICAL; AXIS

Derwent Class: A92; Q32; Q39

International Patent Class (Main): B65D-017/50

International Patent Class (Additional): B65D-008/02 ; B65D-025/38 ; B67B-007/40

File Segment: CPI; EngPI

10/5/16 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008762191 **Image available**

WPI Acc No: 1991-266205/199136

XRAM Acc No: C91-115398

XRPX Acc No: N91-203255

Moulded container - has body and cover portions joined by tear-off hinge

Patent Assignee: GRACE & CO-CONN W R (GRAC)

Inventor: ADAMS D W; AIKIN D S

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5040695	A	19910820	US 90548785	A	19900706	199136 B
CA 2036180	A	19920107				199214

Priority Applications (No Type Date): US 90548785 A 19900706

Abstract (Basic): US 5040695 A

Mould container has a hinge (16) joining a body and cover portions. The hinge comprises a relatively thick rib portion joined by relatively thin portions to the body and lid and a tear initiating portion (22) e.g. a T-shaped **tab**. The **container** is pref. injection or blow moulded from **plastics**. The **plastics** can be olefin polymer and

copolymers.

USE - For containers needing locking but relatively quick access
e.g. fire arms or fire extinguishers. (5pp Dwg.no.5/5
Title Terms: MOULD; CONTAINER; BODY; COVER; PORTION; JOIN; TEAR-OFF; HINGE
Derwent Class: A92; Q32; Q39
International Patent Class (Additional): B65D-001/40 ; B65D-017/34 ;
B67D-001/22
File Segment: CPI; EngPI

10/5/17 (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008703997 **Image available**
WPI Acc No: 1991-208018/199128
XRPX Acc No: N91-158867

Container closure with ring pull tear-away tab - uses weakening lines to
define shape of opening and moulded runners to prevent accidentally
splitting

Patent Assignee: POLYSTAR PACKAGING INC (POLY-N); POLYSTAR PACKAGING
(POLY-N)

Inventor: HEYN W M; ROTH D J
Number of Countries: 018 Number of Patents: 010
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9108959	A	19910627				199128 B
AU 9170782	A	19910718				199142
US 5125528	A	19920630	US 89451812	A	19891218	199229
EP 506871	A1	19921007	WO 90US7294	A	19901218	199241
			EP 91902820	A	19901218	
JP 5502651	W	19930513	WO 90US7294	A	19901218	199324
			JP 91503246	A	19901218	
AU 649188	B	19940512	AU 9170782	A	19901218	199425
EP 506871	B1	19950215	WO 90US7294	A	19901218	199511
			EP 91902820	A	19901218	
DE 69017046	E	19950323	DE 617046	A	19901218	199517
			WO 90US7294	A	19901218	
			EP 91902820	A	19901218	
US 5830398	A	19981103	US 89451812	A	19891218	199851
			US 92906316	A	19920630	
CA 2071939	C	20010724	CA 2071939	A	19901218	200147
			WO 90US7294	A	19901218	

Priority Applications (No Type Date): US 89451812 A 19891218; US 92906316 A
19920630

Cited Patents: DE 3222655; FR 2380196; GB 1571391; US 3437227; US 4309952

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9108959	A				
					Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU
US 5125528	A		7	B65D-017/34	
EP 506871	A1	E	18	B65D-043/06	Based on patent WO 9108959
					Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL SE
JP 5502651	W			B65D-017/32	Based on patent WO 9108959
AU 649188	B			B29C-045/14	Previous Publ. patent AU 9170782
					Based on patent WO 9108959
EP 506871	B1	E	11	B65D-043/06	Based on patent WO 9108959
					Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL SE
DE 69017046	E			B65D-043/06	Based on patent EP 506871
					Based on patent WO 9108959

Abstract (Basic): WO 9108959 A

The tearaway portion as defined by the lines of weakening may be a variety of shapes such as teardrop, circular circular or half moon.

DWg. 3/16

Derwent Class: 032; 033

International Patent Class (Additional): B29C-065/76; B29D-022/00;

B65D-017/16 ; B65D-017/28 ; B65D-017/40

File Segment: EngPI

10/5/23 (Item 21 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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007087971

WPI Acc No: 1987-087968/198713

XRPX Acc No: N87-066017

Reclosable opening arrangement for packing container - has pouring edge strip between container and cover-strip, latter having gripping strip sealed to underside

Patent Assignee: TETRA PAK INT AB (TETRA)

Inventor: HALLBERG A; JACOBSSON K; KJELGAARD T

Number of Countries: 015 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 216239	A	19870401	EP 86112419	A	19860908	198713	B
AU 8662950	A	19870326				198719	
SE 8504351	A	19870321				198720	
NO 8603708	A	19870413				198721	
SE 451012	B	19870824				198736	
US 4715528	A	19871229	US 86905157	A	19860909	198802	
SU 1463132	A	19890228	SU 4028216	A	19860919	198951	
EP 216239	B	19900131				199005	
DE 3668598	G	19900308				199011	
CA 1267613	A	19900410				199019	

Priority Applications (No Type Date): SE 854351 A 19850920

Cited Patents: A3...8731; DK 136811; EP 1134; FR 2357431; FR 2412464;

No-SR.Pub; US 2784894

Patent Details:

Patent No	Kind	Lan	Pg	Main	IPC	Filing	Notes
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EP 216239	A	E	7
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Designated States (Regional): AT BE CH DE FR GB IT LI NL SE

US 4715528 A 7

EP 216239 B E

Designated States (Regional): AT BE CH DE FR GB IT LI NL SE

Abstract (Basic): EP 216239 A

An openable cover strip (8) is used to close a pouring opening (6) in a container wall via a pouring edge strip (7). Applied to the underside of the cover strip is a gripping strip (9') which detachably grips the pouring edge strip.

Pref. the gripping strip is applied to the underside of a pull tab (7') of the cover strip. The gripping and cover strips are sealed together except at an area around the gripping edge (9'') of the gripping strip.

USE - In a non-return package for e.g. beverages or liq. foodstuffs.

Title Terms: RECLOSABLE; OPEN; ARRANGE; PACK; CONTAINER; POUR; EDGE; STRIP; CONTAINER; COVER; STRIP; LATTER; GRIP; STRIP; SEAL; UNDERSIDE

Derwent Class: Q31; Q32; Q33; Q34

International Patent Class (Additional): B65B-005/70; B65D-003/26 ;

B65D-005/70 ; B65D-017/00 ; B65D-047/00 ; B65D-085/72

File Segment: EngPI

10/5/30 (Item 28 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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001027846

WPI Acc No: 1974-C3860V/197419

~~Easy open can with plastics tear tab~~ - has a retaining member inside the can and secured to a projection of the tab

Patent Assignee: CEBAL G P (CEBA)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 1352229	A	19740508				197419 B

Priority Applications (No Type Date): FR 7013593 A 19700415

Title Terms: EASY; OPEN; CAN; PLASTICS; TEAR; TAB; RETAIN; MEMBER; CAN; SECURE; PROJECT; TAB

Derwent Class: Q32

International Patent Class (Additional): B65D-017/16

File Segment: EngPI

Set	Items	Description
S1	56579	TAB? ? OR OPENER? ? OR PULLTAB?
S2	4623236	JAR? ? OR CAN OR CANS OR CONTAINER? ?
S3	1746501	ELASTIC? OR FLEXIB? OR ELASTOMER? OR PLASTIC? OR NONRIGID?
		OR "NOT"()RIGID OR SOFT OR SUPPLE?
S4	1806	S1 AND S2 AND S3 AND IC=B65D
S5	1210	S3(S)S1 AND S2 AND IC=B65D
S6	5440	S1(5N)S2
S7	120	S6(10N)S3 AND IC=B65D
S8	120	IDPAT (sorted in duplicate/non-duplicate order)
S9	120	IDPAT (primary/non-duplicate records only)
S10	30	S9 AND IC=B65D-017

? show files

File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)

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File 350:Derwent WPIX 1963-2003/UD,UM &UP=200325

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File 371:French Patents 1961-2002/BOPI 200209

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FT
Patents

7/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01428568

Container tab

PATENT ASSIGNEE:

Impress B.V., (3166530), Zutphenseweg 51051, 7418 AH Deventer, (NL),
(Applicant designated States: all)

INVENTOR:

Emmerzaal, Ad, Waterhoen 4, NL-7423 CP Deventer, (NL)

LEGAL REPRESENTATIVE:

't Jong, Bastiaan Jacob (49911), Arnold & Siedsma, Advocaten en
Octrooigemachtigden, Sweelinckplein 1, 2517 GK Den Haag, (NL)

PATENT (CC, No, Kind, Date): EP 1205392 A1 020515 (Basic)

APPLICATION (CC, No, Date): EP 2000203965 001110;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B65D-017/353

ABSTRACT EP 1205392 A1

The invention relates to a tab (170) for a container (1) comprising a wall (5) with a tear part for opening the container, said tab comprising:
- a rigid lever part (17), which is connectable to the tear part; and
- an operating part (172) for operating the lever part, which operating part is movably connected to the lever part, such that the operating part can be moved out of the plane of the rigid lever part.

ABSTRACT WORD COUNT: 78

NOTE: Figure number on first page: 1A

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020515 A1 Published application with search report

Examination: 030115 A1 Date of request for examination: 20021115

LANGUAGE (Publication,Procedural,Application): English; English; English

7/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01074811

Container closure having a pull tab

PATENT ASSIGNEE:

ISHIDA CO., Ltd., (1640870), 44, Sanno-cho, Shogoin, Sakyo-ku, Kyoto-shi, Kyoto 606, (JP), (Applicant designated States: all)

Showa Denko Plastic Products Co. Ltd., (2319410), 7-13, Shibakouen 1-chome, Minato-ku, Tokyo 105-0011, (JP), (Applicant designated States: all)

INVENTOR:

Kobayashi, Yukio, 8-20-4, Chuo, Ota-ku, Tokyo, (JP)

Yamashita, Masato, 2512-1, Oaza-Shikata, Shikatsu-cho, Nishi-Kasugai-Gun, Aichi-ken, (JP)

LEGAL REPRESENTATIVE:

Hucker, Charlotte Jane (77101), Gill Jennings & Every Broadgate House, 7 Eldon Street, London EC2M 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 945355 A2 990929 (Basic)

EP 945355 A3 000419

APPLICATION (CC, No, Date): EP 99302299 990324;
PRIORITY (CC, No, Date): JP 9877007 980325
DESIGNATED STATES: DE; DK; ES; FR; GB; IT; NL; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: B65D-017/40

ABSTRACT EP 945355 A2

There is provided a container closure which is easy to manufacture and also easy to open. The container closure (5) is provided with a peripheral section adapted to be attached to a peripheral edge portion of the top opening of a container body(11), and a panel section which is surrounded by the peripheral section. The panel section has a plastic material layer (6) on the face of a gas blocking substrate, and a score line (7) providing a weakened region in the plastic material layer on the periphery of the panel section. The panel section is provided with a pulling tab (8) for allowing a container to be opened along the score portion by raising the pulling tab. The pulling tab is integrally molded with the plastic material layer of the panel section through a thin hinge so that the pulling tab can be pulled up with respect to the panel section. A projection (9) made of plastic material and extending laterally with respect to the pulling tab, is molded integrally with the plastic material layer of the panel section adjacent to the front end of the pulling tab. An abutting end portion (9b) is formed at the front end of the pulling tab for contacting with the projection when the pulling tab is pulled up by a predetermined angle with respect to the panel section and for causing the panel section to be broken along the score portion by pushing the projection when the pulling tab is further pulled up.

ABSTRACT WORD COUNT: 252

NOTE: Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 001129 A2 Date of request for examination: 20001004
Search Report: 20000419 A3 Separate publication of the search report
Examination: 030122 A2 Date of dispatch of the first examination
report: 20021206

Assignee: 020612 A2 Transfer of rights to new applicant: ISHIDA
CO., Ltd. (1640870) 44, Sanno-cho, Shogoin,
Sakyo-ku Kyoto-shi, Kyoto 606 JP

Application: 990929 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

SPECIFICATION Field of the Invention

The present invention relates to a container closure having a pulling tab for opening the container in which the closure is attached, in particular, to a container closure comprising a peripheral...

...least portions of the panel portion and the pulling tab are formed by molding a plastic material.

Disclosure of the Invention:

It is therefore an object of the present invention to...layer of the panel section through a thin walled hinge portion so that the pulling tab can be pulled up with respect to the panel section. A projection is molded integrally with the plastic material layer of the panel section adjacent to a front end portion of the pulling tab. The projection is made of a plastic

material and extends laterally with respect to the pulling tab. An abutting end portion is...

7/5,K/16 (Item 16 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00320106

Container lid structure and process for manufacturing the same.

PATENT ASSIGNEE:

AJINOMOTO CO., INC., (201190), 5-8, Kyobashi 1-chome, Chuo-ku, Tokyo 104,
(JP), (applicant designated states: DE;FR;GB)

INVENTOR:

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11, Suzukicho, Kawasakiku Kanagawaken, (JP)

Sasaki, Hithoshi c/o AJINOMOTO CO., INC., Central Research Laboratories
11, Suzukicho, Kawasakiku Kanagawaken, (JP)

Igota, Shoji c/o AJINOMOTO CO., INC., Central Research Laboratories 11,
Suzukicho, Kawasakiku Kanagawaken, (JP)

LEGAL REPRESENTATIVE:

Bond, Bentley George et al (28441), Haseltine Lake & Co. 28 Southampton
Buildings Chancery Lane, London WC2A 1AT, (GB)

PATENT (CC, No, Kind, Date): EP 322238 A1 890628 (Basic)
EP 322238 B1 920422

APPLICATION (CC, No, Date): EP 88312212 881222;

PRIORITY (CC, No, Date): JP 87322889 871222; JP 88258323 881013

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: B65D-017/28

CITED PATENTS (EP A): US 4309952 A; US 4155481 A; EP 117125 A; DE 3222655 A
; US 3499573 A

ABSTRACT EP 322238 A1

A container lid structure 1 made essentially of plastics includes a lid frame 3 and a lid plate 4. The lid plate 3 typically includes an inner layer 8 comprising a metal foil coated on the opposite sides by plastic layers and connected at the peripheral portion with the lid frame 3 and a core 10 made of a material which does not adhere to or bonds only weakly to the plastic materials for the lid frame 3 and for the inner layer 8. The core 10 is laid over the inner layer 8 with its peripheral portion in an abutting relationship with the inner periphery of the lid frame 3. A holding member 7 may be formed on the core 10 and bonded to the inner layer 8 through apertures 12 in the core. A pulling tab 5 is also formed on the core 10 and bonded to the inner layer 8 through an aperture 13 in the core.

ABSTRACT WORD COUNT: 164

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 890628 A1 Published application (A1with Search Report
;A2without Search Report)

Examination: 891129 A1 Date of filing of request for examination:
891002

Examination: 910508 A1 Date of despatch of first examination report:
910322

Grant: 920422 B1 Granted patent

Oppn None: 930414 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

...SPECIFICATION lid structure, and more particularly to a container lid structure provided with a lid opening **tab** . More specifically, the present invention pertains to a **container** lid structure which is totally or mostly made of **plastic** material.

A container lid structure having a finger **gripping tab** for opening the **container** has been widely adopted for example in a **metal can** . It has also been proposed for example by the Japanese patent laid-open application 57...

...patent laid-open application 59-31131 to provide a container lid structure having such a **container** opening **tab** by a **plastic** forming technique. The **proposed container** lid structure includes a lid frame adapted to be attached to a container barrel and a lid plate encircled...

...portion with a transversely extending groove 5c. With the aid of the groove 5c, the **tab 5** can be **raised** for the opening operation with a relatively small effort.. In the opening operation, the shoulder...

7/5,K/19 (Item 19 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00290421

A system for forming an opening in a container end member.

PATENT ASSIGNEE:

ADOLPH COORS COMPANY, (521870), 17755 West 32nd Avenue, Golden Colorado
80401, (US), (applicant designated states:
AT;BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)

INVENTOR:

Moen, Bruce Allen, 2017 Table Drive, Golden Colorado 80401, (US)

LEGAL REPRESENTATIVE:

Baillie, Iain Cameron et al (27951), c/o Ladas & Parry Isartorplatz 5,
D-8000 Munchen 2, (DE)

PATENT (CC, No, Kind, Date): EP 289022 A2 881102 (Basic)
EP 289022 A3 900103

APPLICATION (CC, No, Date): EP 88106839 880428;

PRIORITY (CC, No, Date): US 45369 870501; US 168428 880315

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: **B65D-017/34**

CITED PATENTS (EP A): FR 2293369 A; FR 2293369 A; EP 117125 A; EP 117125 A;
US 4039099 A; US 3383008 A

ABSTRACT EP 289022 A2

A container end member (10) provided with a score line groove (60) defining a severable tab portion (58) that can be severed by applying an inwardly directed force thereto and a hinge portion (78) for retaining the severable tab portion (58) attached to the container end member (10) and a one-piece integrally formed plastic member (88) pivotally secured to the container end member (10) and comprising an elongated body portion (92) having an abutment end portion (98) overlying a portion of the severable tab portion (58) for applying the axially inwardly directed force thereto and a transverse handle end portion (94) overlying another portion of the container end member (10) so that when an axially

outwardly directed force is applied to the transverse handle end portion (94), the elongated body portion (92) will pivot relative to the container end member (10) so that the transverse abutment end portion (98) will apply the axially inwardly directed force to the portion of the severable tab portion (58) to sever the severable tab portion (58) along the score line groove (60) and form an outlet opening in the container end member.

ABSTRACT WORD COUNT: 192

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 881102 A2 Published application (A1with Search Report ;A2without Search Report)

Search Report: 900103 A3 Separate publication of the European or International search report

Examination: 900822 A2 Date of filing of request for examination: 900531

Withdrawal: 930505 A2 Date on which the European patent application was deemed to be withdrawn: 921031

LANGUAGE (Publication,Procedural,Application): English; English; English

...SPECIFICATION therein may be readily removed therefrom and more particularly to an ecology type of beverage **container** end member wherein a **tab** means which is displaced to form the opening remains permanently secured to the container end...

...end member wherein a portion of the system for forming an opening in the beverage **container** end member includes a **plastic tab**.

In the commercial marketing of beverages, such as beer and soft drinks, it is highly...

...the container end member is provided with severable score line groove means defining a severable **tab** portion that **can** be severed along the score line groove means by applying an inwardly directed force thereto and a hinge portion for retaining the severed **tab** portion attached to the **container** end member. A force applying means for applying the inwardly directed force to sever the severable tab portion is provided and comprises an integral **plastic** member having an elongated body portion having a central longitudinal axis and an integral attachment means portion for securing the integral **plastic** member to the container end member. The elongated body portion has a generally transverse abutment means portion and the elongated body portion provides for pivotal movement of the **plastic** member on the container end member so that when an axially outwardly directed force is...

7/5,K/25 (Item 25 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00836470 **Image available**

LASER-ETCHED PULL TAB CONTAINER OPENING DEVICES AND METHODS OF MAKING THE SAME

Patent Applicant/Inventor:

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(Residence), CA (Nationality)

Legal Representative:

MITCHELL Robert (et al) (agent), Swabey Ogilvy Renault, Suite 1600, 1981
McGill College Avenue, Montreal, Quebec H3A 2Y3, CA,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200168460 A2-A3 20010920 (WO 0168460)

Application: WO 2001CA316 20010312 (PCT/WO CA0100316)

Priority Application: US 2000188681 20000313; CA 2307074 20000428

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE

SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: B65D-017/00

Publication Language: English

Filing Language: English

English Abstract

A device and method for opening containers utilizing laser-etched pull tabs and methods of making the same. According to the invention, indicia is laser-etched on a pull tab substrate, which may be made of any suitable material, by selective laser ablation of the substrate with a laser marker. The laser marker is preferably capable of ablating the substrate's surface to any desired depth, including depths of between 1 to 50 microns and depths that enable the etching to be detected by touch. The invention also contemplates removing one or more coating layers in addition to a portion of the exposed pull tabs surface through laser ablation to generate visually contrasting indicia for promoting or decorating the substrate surface. The pull tabs of the present invention have consistent, high definition indicia that is both tamper resistant and permanent.

Legal Status (Type, Date, Text)

Publication 20010920 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20020425 Late publication of international search report

Republication 20020425 A3 With international search report.

Detailed Description

... be made of any suitable material which is capable of functioning as a pull tab for a container including aluminum, steel, plastic, other metals, and/or any natural, synthetic, composite, or other suitable material. The selection of...to the invention, may comprise any material capable of use 1 5 as a pull tab container opening device. Exemplary materials include aluminum, steel, plastic, or any natural, synthetic, composite, or other suitable material. Similarly, combinations of materials as layers...

7/5,K/44 (Item 44 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00252202

EASY OPENING TAB FOR CONTAINER

LANGUETTE D'OUVERTURE FACILE DESTINEE A UN RECIPIENT METALLIQUE

Patent Applicant/Assignee:

GARBISO Michael Joseph,

Inventor(s):

GARBISO Michael Joseph,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9400353 A1 19940106

Application: WO 93US5837 19930617 (PCT/WO US9305837)

Priority Application: US 92902066 19920622

Designated States: AU BR CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: B65D-017/34

Publication Language: English

English Abstract

A container opening tab (24) having a ring (26) at one end and an opposite free end is pivotally mounted between its ends on a container wall (14) having a pair of raised formations (32, 34), such as inclined ramp formations. The tab (24) is rotatable about a first axis (30) normal to the wall between a storage position in which the tab lies flat against the wall with the tab ring encircling one raised formation and the other raised formation disposed along one longitudinal side of the ring (26), and a container opening position in which the tab ring seats on the raised formation (32, 34) to space the ring from the wall, and the free tab end overlies an integral frangible seal (16) forming portion of the wall. While in its container opening position, the tab is rotatable about a second axis transverse to both the first axis and the longitudinal axis of the tab to press the tab free end against and thereby rupture the frangible seal (16).

Detailed Description

... lower seal side in the drawings), by a bendable juncture 22 forming a hinge. A container easy opening tab 24 having a ring-shaped lifting end 26 and an opposite free end 28 is...

...30. In this case, the pivot means 30 is a rivet which extends through a flexible lip 31 on

7/5,K/45 (Item 45 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00208808

RECLOSABLE CONTAINER CLOSURE

FERMETURE REFERMABLE POUR RECIPIENT

Patent Applicant/Assignee:

POLYSTAR PACKAGING INCORPORATED,

Inventor(s):

ROTH Donald J,

HEYN William M,

SAUER Donald G,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9206011 A1 19920416

Application: WO 91US6955 19910927 (PCT/WO US9106955)

Priority Application: US 90275 19901001

Designated States: AT AT AU BB BE BF BG BJ BR CA CF CG CH CH CI CM DE DE DK DK ES ES FI FR GA GB GB GN GR HU IT JP KP KR LK LU LU MC MG ML MR MW NL NL NO PL RO SD SE SE SN SU TD TG

Main International Patent Class: B65D-017/00

Publication Language: English

English Abstract

A reclosable closure for containers of the type used for keeping or storing product for some time following initial opening of the container. Typical uses would be for snack foods such as candies, peanuts, etc., and powdered products such as sugar, coffee, tea and other beverage mixes and the like. The closure also is adaptable for use with canned vegetables and meats and also with non-food products such as, for example, nails, tacks and a myriad of similar hardware items. The preferred closure includes an end panel (20) and ring-shaped frame member (22) which are fused or otherwise adhered together during insert-injection molding of the frame member. Means are provided on the frame member for contacting an edge of the end panel, or an integral pull tab (34) thereon, for restraining the end panel in a position for reclosing the container.

Detailed Description

... tab 34 includes a 15 cut line 35 which provides an opening so that pull **tab 34 can** open into the form of a pull ring. Upon the application of an upward pulling...

...20 is provided with a coined hinge 38, which may be cold-formed in the **plastic** sheet material,, the hinge 38 being located at and extending between the spaced lugs or...

Set	Items	Description
S1	56198	TAB? ? OR OPENER? ? OR PULLTAB?
S2	1221310	JAR? ? OR CAN OR CANS OR CONTAINER? ?
S3	804845	ELASTIC? OR FLEXIB? OR ELASTOMER? OR PLASTIC? OR NONRIGID?
		OR "NOT"()RIGID OR SOFT OR SUPPLE?
S4	8838	S1(5N)S2
S5	.52	S4(S)S3 AND IC=B65D-017
S6	52	IDPAT (sorted in duplicate/non-duplicate order)
S7	51	IDPAT (primary/non-duplicate records only)

? show files

File 348:EUROPEAN PATENTS 1978-2003/Apr W03
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File 349:PCT FULLTEXT 1979-2002/UB=20030424,UT=20030417
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Biblio
NPL

9/5/9 (Item 5 from file: 51)
DIALOG(R)File 51:Food Sci.&Tech.Abs
(c) 2003 FSTA IFIS Publishing. All rts. reserv.

00083787 74-08-f0342 SUBFILE: FSTA
Easy-opening can ends having plastics tear tabs .
Cebal, GP
PATENT CO.: British Patent 1974
PATENT NO.: 1 352 229
DOCUMENT TYPE: Patent
LANGUAGE: English
Abstract not Available
DESCRIPTORS: closures-- can ends with plastics tear tabs , Patent
; plastics -- can ends with plastics tear tabs , Patent; cans --
plastics tear tabs for ends of cans , Patent
SECTION HEADINGS: Food Packaging (SC=f)

9/5/11 (Item 2 from file: 53)
DIALOG(R)File 53:FOODLINE(R): Food Science & Technology
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00848234 FOODLINE ACCESSION NUMBER: 529467
Device for opening a drink can.
Skovajsa J
PATENT: WO 0037352 A1
APPLICATION COUNTRY: FR (DATE(S):19981222)
PRIORITY APPLICATION DATE: 19991221
DESIGNATED STATES:
SeepublishedpatentdocumentforDesignatedContractingStates.
X-REFERENCE: FOOD PACKAGING
LANGUAGE: French
SUMMARY LANGUAGE: English
DOCUMENT TYPE: Patent
FOODLINE UPDATE CODE: 20000810
ABSTRACT: A one-piece plastic opener for food and beverage cans has a
handle with a hook at one end plus a downward-pointing projection
between the hook and the handle. The hook engages the eyelet in the
pull-tab of the can.
SECTION HEADING: PACKAGING
DESCRIPTORS: CAN OPENERS; CANS; CATERING EQUIPMENT; CONTAINERS;
EQUIPMENT; OPENING EQUIPMENT; PACKAGING CONTAINERS; PACKAGING
PRODUCTS; PATENT; PCT PATENT

9/5/32 (Item 12 from file: 240)
DIALOG(R)File 240:PAPERCHEM
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00184697 PAPERCHEM NO: AB5310966
Easy-Open Lid Closure Arrangement
Helms, C. R.; Container Corp. of America
PATENT NUMBER: US 4360121 PATENT DATE: 821123 PATENT CLASS#: 220/270
PATENT APP# - DATE OF APPLICATION
US 248294 - 810327
SOURCE: U.S. pat. 4,360,121. Issued Nov. 23, 1982. 5 claims. 4 p.
Cl.220/270. Filed: U.S. appln. 248,294 (March 27, 1981).
PUBLICATION YEAR: 1982
DOCUMENT TYPE: PATENT

LANGUAGES: ENGLISH

A container lid comprises a plastic rim surrounding a central portion made of pbd., together with a pull tab which can be used to force part of the pbd. away from the plastic rim, to facilitate the subsequent complete removal of the pbd. portion.

DESCRIPTORS: CLOSURES; ENGLISH; OPENING FEATURES; PACKAGE DESIGN; PAPER BOARD CONTAINERS ; PATENTS; PLASTICS ; RIMS; TABS ; UNITED STATES

FILE SEGMENT: AB (IPST Abstract Bulletin non-patents)

9/5/84 (Item 14 from file: 252)

DIALOG(R)File 252:Packaging Sci&Tech

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017287 87-01-k0004

(Beverage can.)

Getraenkedose

Scavo, G.

German Federal Republic Patent Application, 1986, DE 34 32 554 A1

Language: De

Document Type: Patent

The described beverage can has a tear-open tab preferably in the lid and has a plastics drinking spout which is inside the unopened can. The spout is preferably formed with a support disk in 1 piece, and is flanged with the lid. The spout can be closed by applying optional extra parts; alternatively, the spout can be pushed inside the can and the can opening ist then closed up. (RAB)

Descriptors: Can - Can - Reclosable closure - Tear flap - Spout - Patent

Set	Items	Description
S1	196809	TAB? ? OR OPENER? ? OR PULLTAB?
S2	4571471	JAR? ? OR CAN OR CANS OR CONTAINER? ?
S3	2925840	ELASTIC? OR FLEXIB? OR ELASTOMER? OR PLASTIC? OR NONRIGID?
		OR "NOT"()RIGID OR SOFT OR SUPPLE?
S4	2456	S1(5N)S2
S5	420	S3(S)S4
S6	96	S3(5N)S4
S7	91	S6 NOT PY>2000
S8	87	RD (unique items)
S9	87	S8 NOT PD>20001120

? show files

File 6:NTIS 1964-2003/Apr W4
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File 8:EI Compendex(R) 1970-2003/Apr W3
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File 31:World Surface Coatings Abs 1976-2003/Mar
(c) 2003 Paint Research Assn.

File 34:SciSearch(R) Cited Ref Sci 1990-2003/Apr W3
(c) 2003 Inst for Sci Info

File 51:Food Sci.&Tech.Abs 1969-2003/Apr W3
(c) 2003 FSTA IFIS Publishing

File 53:FOODLINE(R): Food Science & Technology 1972-2003/Apr 28
(c) 2003 LFRA

File 65:Inside Conferences 1993-2003/Apr W3
(c) 2003 BLDSC all rts. reserv.

File 94:JICST-EPlus 1985-2003/Apr W3
(c)2003 Japan Science and Tech Corp(JST)

File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Mar
(c) 2003 The HW Wilson Co.

File 144:Pascal 1973-2003/Apr W3
(c) 2003 INIST/CNRS

File 240:PAPERCHEM 1967-2003/Apr W4
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File 248:PIRA 1975-2003/Apr W3
(c) 2003 Pira International

File 252:Packaging Sci&Tech 1982-1997/Oct
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File 323:RAPRA Rubber & Plastics 1972-2003/Apr
(c) 2003 RAPRA Technology Ltd

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info